



PRODUCT DATA SHEET
EpoSany®-4031 Clear
Interior/Exterior Alkyd Urethane

GENERIC TYPE:

Two-component solvent-based Epoxy-Polyamide. Part and Part B mixed prior to application.

DESCRIPTION: **EpoSany-4031 Penetrating Sealer** is a two-component, transparent sealer formulated for concrete and masonry surfaces. It protects the surface from rain, pollutants, oxidation, salts, and acid rains. **EpoSany-4031** meets and exceeds the requirements of Federal Specification SS-S-001416A. Concrete and masonry sealed with **EpoSany-4031** continue to "breathe". **EpoSany-4031** allows vapor transmission up to 0.43%, both water and dampness are sealed out. **EpoSany-4031** also complies with ASTM C-309 Specifications and is an excellent curing compound. Excellent fast-drying material. Priming and sealing action provides excellent adhesion for surfacers and polyurethane membranes.

FEATURES:

EpoSany-4031 is a two-component, ready-to-use material that can be used as a combination curing, sealing, and dust proofing treatment for freshly finished concrete or masonry surfaces. Low viscosity results in deep penetration that stops water leakage. Surface stays clean and free of efflorescence. **EpoSany-4031** is long lasting and does not require annual re-coating. Surface appearance is unchanged, and there is no peeling, flaking, or dusting that often occurs with other surface "sealers". The repellent nature of **EpoSany-4031** surface provides resistance against graffiti, grease, oil, etc. The ability to transmit vapor eliminates the problem of spalling caused by moisture freezing near the surface of concrete or masonry. Water is repelled at the surface and does not enter the wall at all. Small voids, fissures, and hairline cracks are sealed to prevent further deterioration of your structure.

RECOMMENDED USES:

EpoSany 4031 is suitable as a curing compound or form release agent. For application on "Green" concrete walls to retard the escape of moisture during cure period. Excellent for use as a form coating plywood or steel forms. Application prior to surfacing assures tight adhesion between concrete and surfacers membranes. Compatibility with other coatings, surfacers and polyurethane membranes eliminates need to form release oils or curing oils.

NOT RECOMMENDED FOR:

Immersion in strong acids or solvents or in corrosive areas without recommended topcoat.

ORDER INFORMATION: Prices may be obtained from **SanyChem Sales Representative** or main Office.

APPROXIMATE SHIPPING WEIGHT :

Freight Classification: Paint, Combustible Liquid UN1263, PG III

| Packaging: | 2 gallons | 10 gallons |
|---------------------------------|---------------------|----------------------|
| EpoSany-4031 | 18.0 lbs. (8.0 kg.) | 86.0 lbs. (39.0 kg.) |
| SolvenSany # 262 Thinner | 9.0 lbs. (4.0 kg.) | 45.0 lbs. (21.0 kg.) |

FLASH POINT (Pensky/Martens Closed Cup) :

| | Flash Point |
|---------------------------------|-------------|
| EpoSany-4031 P/A | 1 °C |
| EpoSany-4031 P/B | 9 °C |
| SolvenSany # 262 Thinner | 23 °C |

Topcoat Required: May be topcoated with catalyzed EpoSany (epoxies), PhenoSany (Phenolics), MembraCoat (Polyurethane membranes) or others as recommended. Please consult the appropriate system guide, the particular job specification or your **SanyChem Coatings' Industrial Coatings Specialist** for proper systems using this product.

NOTE: A test patch is recommended to verify compatibility with existing coatings, to evaluate the adhesion to any existing coatings and the adhesion of existing coatings to the substrate.

* If maximum drying times are exceeded, surface must be wiped with **SolvenSany # 252 Thinner**. If more than one week has elapsed, another coat of **EpoSany-4031** must be applied before topcoating. Failure to take these measures may result in poor adhesion or delamination between coats.

SPECIFICATION DATA

• **Theoretical Solids Content By Volume:**
EpoSany 4031 28% ± 2%

• **Theoretical Coverage Rate per Gallon: ***

EpoSany 4031 11.2 m²/Lit. at 25 microns.
5.6 m²/Lit. at 50 microns.

• Mixing and application losses will vary and must be taken into consideration when estimating job requirements. Coverage will be lower over rough surfaces and at higher dry film thicknesses. Heavy applications over organic coatings may result in softening and/or solvent entrapment.

• **Temperature Resistance** (Non-Immersion)
Continuous: 180 °F (82 °C)
Non-Continuous: 220 °F (104 °C)
May yellow at temperatures above: 150 °F (66 °C)

• **Recommended Dry Film Thickness Per Coat :**
2 mils (50 microns) per coat.

• **Flexibility:** Very Good
• **Weathering:** Good (Chalks)
• **Abrasion Resistance:** Excellent

• **Color Standard in :** Clear only.

• **Substrates:** Apply over suitably prepared steel, concrete, wood, masonry or others as recommended.

• **Gloss** High; will chalk if exposed to sunlight.

• **Shelf Life :** 24 months when stored at 75 °F (25 °C)

• **Storage Conditions:** Store indoors.
Temp.: 40 - 110 °F (4 -43 °C)
Humidity: 0 - 90%

Compatibility with other Coatings: Can be applied over most epoxies. For specific recommendations, please contact your SanyChem Representative.

NOTE: A test patch is recommended to verify compatibility with existing coatings, to evaluate the adhesion to any existing coatings and the adhesion of existing coatings to the substrate.

| CHEMICAL RESISTANCE GUIDE (With Suitable Topcoat) | |
|---|------------------------------|
| Exposure | Splash & Spillage |
| Oil & Grease | Excellent |
| Solvent-Aromatic and ketone | Fair |
| Acids | Fair |
| Alkalies | Good |
| Water | Very Good |
| Salt | Very Good |
| Solvent-Aliphatic | Good |

APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions, and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

Substrates & Surface Preparation

General:

Remove any oil or grease from surface to be coated with clean rags soaked in **SolvenSany # 252** or **Surface AC Cleaner** in accordance with **SSPC-SP-1-82**.

Steel:

For non-immersion service, abrasive blast to a Commercial Finish in accordance with **SSPC-SP-6-85** to a degree of cleanliness in accordance with **NACE # 3** to obtain a 1-2 mil (25-50 microns) blast profile.

Concrete

Curing compound-walls only: Apply immediately after forms have been stripped. Floors must have cured concrete. **EpoSany-4031** cannot be used as a curing membrane for concrete floors.

Form release compound: Use clean, dry, untreated grade 1 plywood. Apply at least two coats, thin first coat 50%. Refresh coats may be applied as needed. **EpoSany-4031** is not a substitute for blasting or acid etching for immersion service.

Primer

Remove fins and other protrusions by stoning, sanding or grinding. Remove form oils, incompatible curing agents and hardeners by abrasive blasting. For large holes or pits, use an epoxy surfacer for leveling and uniformity prior to application of **EpoSany-4031**.

Immersion Service:

Abrasive blast to open all voids and obtain a surface similar to medium grit sandpaper (horizontal surfaces may be acid etched). Blow or vacuum off sand and dust.

Non-Immersion:

Horizontal surfaces must be acid etched or abrasive blasted to remove laitance. For other surfaces, blow off with compressed air to remove dust.

Wood:

Should be free of chips and splinters. Excessively rough wood should be sanded before coating.

Mixing: Mix separately, then combine and mix in the following proportions.:

| | 2 Gal. Kit. | 10 Gal. Kit |
|---------------------------|-------------|-------------|
| EpoSany - 4031 P/A | 1.0 Gallon | 05 Gallons |
| EpoSany - 4031 P/B | 1.0 Gallon | 05 Gallons |

Thinning:

Thin up to 25% by volume with **SolvenSany # 262** Thinner for spray or brush applications. When coating wood the first coat should be thinned 50% by volume with **SolvenSany # 262** Thinner.

NOTE:

Allow a 1 hour SWEAT-IN prior to application.

Pot Life:

24 hours minimum at 75 °F (24 °C) and less at higher temperatures. Pot life ends when coating loses body and begins to sag.

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. The following equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.



Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. General guidelines:

Spray Application

Spray

Use sufficient air volume for correct operation of equipment. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray

Use a 3/8" minimum I.D. material hose. Hold gun approximately 12-14 inches from the surface and at a right angle to the surface.

| Mfr. & Gun | Fluid Tip | Air Cap. |
|------------------------|---------------------|----------|
| DeVilbiss P-MBC or JGA | FX | 704 |
| Binks #18 or #62 | 63B | 63 PB |
| I.D. | Approx. 0.043" I.D. | |

Airless Spray

Use 3/8" minimum I.D. material hose. Hold gun approximately 18-20 inches from the surfaces and at a right angle to the surface.

| Mfr. & Gun | Pump |
|-------------------|--------------------------------|
| DeVilbiss JGN-502 | QFA-514 or QFA-519 |
| Binks Model 700 | Mercury 5C or B8-36 37:1 |
| Graco 205-591 | President 30:1 or BullDog 30:1 |

Use a 0.013" - 0.017" tip with 2100 - 2200 psi.
Filter: 60 mesh

Teflon packings are recommended and available from the pump manufacturer

| APPLICATION TEMPERATURES | | | | |
|--------------------------|----------|----------|----------|----------|
| Conditions | Material | Surfaces | Ambient | Humidity |
| Normal | 18-29 °C | 18-29 °C | 18-32 °C | 30 - 85% |
| Minimum | 10 °C | 10 °C | 4 °C | 0 % |
| Maximum | 32 °C | 66 °C | 49 °C | 95% |

Do not apply when the surface temperature is less than 2 °C above the dew point

| DRYING TIMES BEFORE TOPCOATING | | |
|--------------------------------|----------|----------|
| Temperature | Minimum | Maximum* |
| 4 °C | 24 hours | 48 hours |
| 10 °C | 12 hours | 42 hours |
| 16 °C | 6 hours | 36 hours |
| 24 °C | 2 hours | 24 hours |
| 32 °C | 2 hours | 18 hours |

Cleanup & Safety

Cleanup

Use **SolvenSany #252**. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety

Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Caution



This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. 1/2001



Contact



For information and Prices, Please Call a SANYCHEM Local Sales Representative.

Phones:

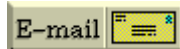


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